



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6  
HOUSTON BRANCH  
10625 FALLSTONE RD.  
HOUSTON, TEXAS 77099

July 16, 2012

**MEMORANDUM**

**SUBJECT:** Contract Laboratory Program Data Review  
**FROM:** *Raymond Flores*  
Raymond Flores, Alternate ESAT Regional Project Officer  
Environmental Services Branch (6MD-HL)  
**TO:** Bret Kendrick, Superfund Project Manager (6SF-TR)

**Site:** MANUFACTURING SPECIALTIES INC.

**Case#:** 42562

**SDG#:** MF5WC5

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.



663033

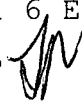
# ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6  
10625 Fallstone Road  
Houston, TX 77099

Alion Science and Technology

---

## MEMORANDUM

DATE: July 16, 2012  
TO: Marvelyn Humphrey, ESAT PO, Region 6, EPA  
FROM: Linda Hoffman, Data Reviewer, ESAT   
THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT D6J  
SUBJECT: CLP Data Review

Contract No.:	EP-W-06-030
TO No.:	030
Task/Sub-Task:	2-12
ESAT Doc. No.:	B030-212-0046
TDF No.:	6-12-376B
ESAT File No.:	I-0536

Attached is the data review summary for Case # 42562  
SDG # MF5WC5  
Site Manufacturing Specialties, Inc.

### COMMENTS:

#### I. LEVEL OF DATA REVIEW

Region 6 Standard review was performed for this data package.

#### II. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

The CCS and hardcopy review found the data package contractually compliant.

#### III. TECHNICAL USABILITY ASSESSMENT OF THE DATA PACKAGE

All results were technically acceptable.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 6  
HOUSTON BRANCH  
10625 FALLSTONE ROAD  
HOUSTON, TEXAS 77099

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	42562	SITE	Manufacturing Specialties, Inc.
LABORATORY	BONNER	NO. OF SAMPLES	3
CONTRACT#	EP-W-09-037	MATRIX	Water
SDG#	MF5WC5	REVIEWER (IF NOT ESB)	ESAT
SOW#	ISM01.3	REVIEWER'S NAME	Linda Hoffman
SF#	303DD2A6DC	COMPLETION DATE	July 16, 2012

SAMPLE NO.	MF5WC4				
	MF5WC5				
	MF5WC6				

DATA ASSESSMENT SUMMARY

	CN
1. HOLDING TIMES	<u>0</u>
2. CALIBRATIONS	<u>0</u>
3. BLANKS	<u>0</u>
4. MATRIX SPIKES	<u>0</u>
5. DUPLICATE ANALYSIS	<u>0</u>
6. ICP QC	
7. LCS	
8. SAMPLE VERIFICATION	<u>0</u>
9. OTHER QC	<u>N/A</u>
10. OVERALL ASSESSMENT	<u>0</u>

0 = Data had no problems.

M = Data qualified due to major or minor problems.

Z = Data unacceptable.

NA = Not applicable.

**ACTION ITEMS:**

**AREAS OF CONCERN:**

**COMMENTS/CLARIFICATIONS  
REGION 6 CLP QA REVIEW**

**CASE 42562 SDG MF5WC5 SITE Manufacturing Specialties, Inc.  
LAB BONNER**

**COMMENTS:** This SDG consisted of three water samples for cyanide analysis following CLP SOW ISM01.3. The sampler designated sample MF5WC4 as the laboratory QC sample.

Standard review was performed for this data package as requested by the TDF.

**DATA ASSESSMENT:** The QC problem affecting data usability is addressed below.

Because of laboratory blank readings, the cyanide result <CRQL for sample MF5WC6 should be considered undetected and was flagged "U" at the CRQL on the DST.

**OVERALL ASSESSMENT:** All results were technically acceptable. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist.

The laboratory was contacted for some CSF and reporting issues (see Resubmission Request). The laboratory resubmission is not expected to impact the DST, so the DST included in this report is the final version.

## INORGANIC ACRONYMS

<b>CADRE</b>	Computer-Aided Data Review and Evaluation
<b>CCB</b>	Continuing Calibration Blank
<b>CCS</b>	Contract Compliance Screening
<b>CCV</b>	Continuing Calibration Verification
<b>CN</b>	Cyanide
<b>CRQL</b>	Contract Required Quantitation Limit
<b>CSF</b>	Complete SDG File
<b>DST</b>	Data Summary Table
<b>HG</b>	Mercury
<b>ICB</b>	Initial Calibration Blank
<b>ICP</b>	Inductively Coupled Plasma
<b>ICP-AES</b>	Inductively Coupled Plasma-Atomic Emission Spectroscopy
<b>ICP-MS</b>	Inductively Coupled Plasma-Mass Spectrometry
<b>ICS</b>	Interference Check Sample
<b>ICV</b>	Initial Calibration Verification
<b>IS</b>	Internal Standard
<b>LCS</b>	Laboratory Control Sample
<b>MDL</b>	Method Detection Limit
<b>NFG</b>	National Functional Guidelines
<b>PE</b>	Performance Evaluation
<b>%D</b>	Percent Difference
<b>%R</b>	Percent Recovery
<b>%RI</b>	Percent Relative Intensity
<b>%RSD</b>	Percent Relative Standard Deviation
<b>QA</b>	Quality Assurance
<b>QC</b>	Quality Control
<b>QL</b>	Quantitation Limit
<b>RPD</b>	Relative Percent Difference
<b>RSCC</b>	Regional Sample Control Center
<b>SDG</b>	Sample Delivery Group
<b>SMO</b>	Sample Management Office
<b>SOW</b>	Statement of Work
<b>SQL</b>	Sample Quantitation Limit
<b>TAL</b>	Target Analyte List

## HEADER DEFINITIONS FOR INORGANIC EXCEL DST

CASE: Case Number  
SDG: SDG Number  
EPASAMP: EPA Sample Number  
LABID: Laboratory File/Sample ID  
MATRIX: Sample Matrix  
QCCOD: Sample QC Code  
SMPQUAL: Sample Qualifier  
ANDATE: Sample Analysis Date  
ANTIME: Sample Analysis Time  
CASNUM: Compound CAS Number  
ANALYTE: Compound Name  
CONC: Compound Concentration  
VALDQAL: Region 6 Inorganic Data Validation Qualifier (see  
Inorganic Data Qualifier Definitions on the next page)  
UNITS: Concentration Units  
ADJCRQL: Adjusted Contract Required Quantitation Limit Value  
SMPDATE: Sampling Date  
PRPDATE: Sample Preparation Date  
LRDATE: Laboratory Receipt Date  
LEVEL: Sample Level  
PERSOLD: Sample Percent Solids  
SMPWTVL: Sample Weight (Soil Samples)/Initial Sample Volume (Water  
Samples)  
FINLVOL: Final Sample Volume  
METHOD: Method of Analysis  
STATLOC: Station Location

**Disclaimer:** ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, ADJCRQL, VALDQAL, and PERSOLD. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

## INORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

- U** Not detected at reported quantitation limit.
- L** Reported concentration is between the MDL and the CRQL.
- J** Result is estimated because of outlying quality control parameters such as matrix spike, serial dilution, etc., or the result is below the CRQL.
- R** Result is unusable.
- F** A possibility of a false negative exists.
- UC** Reported concentration should be used as a raised quantitation limit because of blank effects and/or laboratory or field contamination.
- +** High biased. Actual concentration may be lower than the concentration reported.
- Low biased. Actual concentration may be higher than the concentration reported.
- W** The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

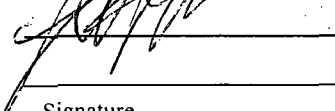
CASE	SDG	EPASAMP	LABID	MATRIX	QCCODE	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSOLD	SMPWTVL	FINVOL	METHOD	STATLOC
42562	MF5WC5	MF5WC4	1205176-01	W	Field_Sample	05/25/2012	09:03:34	57125	Cyanide	10.0	U	ug/L	10.0	05/15/2012	05/24/2012	05/16/2012	Medium	0.0	50	50	AS	GW-01
42562	MF5WC5	MF5WC5	1205176-02	W	Field_Sample	05/25/2012	09:07:49	57125	Cyanide	10.0	U	ug/L	10.0	05/15/2012	05/24/2012	05/16/2012	Medium	0.0	50	50	AS	GW-02
42562	MF5WC5	MF5WC6	1205176-03	W	Field_Sample	05/25/2012	09:09:14	57125	Cyanide	10.0	U	ug/L	10.0	05/15/2012	05/24/2012	05/16/2012	Medium	0.0	50	50	AS	GW-03



# INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. <u>42562</u>	SDG No. <u>MF5WC5</u>	SDG Nos. To Follow	Mod. Ref. No.	Date Rec <u>06/06/12</u>						
EPA Lab ID: <u>BONNER</u>			<b>ORIGINALS</b>	<b>YES</b> <b>NO</b> <b>N/A</b>						
Lab location: <u>Hattiesburg, MS</u>			<b>CUSTODY SEALS</b>							
Region: <u>6</u> Audit No.: <u>42562/MF5WC5</u>			1. Present on package?	X						
Resubmitted CSF? Yes <u>        </u> No <u>X</u>			2. Intact upon receipt?	X						
Box No(s): <u>1</u>			<b>FORM DC-2</b>							
<b>COMMENTS:</b>  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Item</th> <th style="width: 90%;">Description</th> </tr> </thead> <tbody> <tr> <td>18/18a</td> <td>The airbill was a photocopy, but the location of the original document was not indicated. The auditor located the original document in SDG MF5WC4 and recorded this information on the photocopy.</td> </tr> <tr> <td>Other</td> <td>The laboratory did not complete the "no. of shipments" field on Form DC-2-6. The auditor entered the appropriate information.</td> </tr> </tbody> </table>			Item	Description	18/18a	The airbill was a photocopy, but the location of the original document was not indicated. The auditor located the original document in SDG MF5WC4 and recorded this information on the photocopy.	Other	The laboratory did not complete the "no. of shipments" field on Form DC-2-6. The auditor entered the appropriate information.	3. Numbering scheme accurate?	X
			Item	Description						
			18/18a	The airbill was a photocopy, but the location of the original document was not indicated. The auditor located the original document in SDG MF5WC4 and recorded this information on the photocopy.						
			Other	The laboratory did not complete the "no. of shipments" field on Form DC-2-6. The auditor entered the appropriate information.						
			4. Are enclosed documents listed?	X						
			5. Are listed documents enclosed?	X						
			<b>FORM DC-1</b>							
			6. Present?	X						
			7. Complete?	X						
			8. Accurate?	X						
			<b>TRAFFIC REPORT/CHAIN-OF-CUSTODY RECORD(s)</b>							
			9. Signed?	X						
			10. Dated?	X						
			<b>AIRBILLS/AIRBILL STICKER</b>							
			11. Present?	X						
			12. Signed?	X						
			13. Dated?	X						
			<b>SAMPLE TAGS</b>							
14. Does DC-1 list tags as being included?	X									
15. Present?	X									
<b>OTHER DOCUMENTS</b>										
16. Complete?	X									
17. Legible?	X									
18. Original?		X								
18a. If "NO", does the copy indicate where original documents are located?		X								

Over for additional comments.

Audited   
 Audited \_\_\_\_\_  
 Signature

Linda Hoffman/ESAT Data Reviewer  
 \_\_\_\_\_  
 Printed Name/Title

Date 07/12/12  
 Date \_\_\_\_\_

DC-2\_\_

In Reference To Case No.:  
42562 SDG: MF5WC5 (I-0536)

**Contract Laboratory Program  
REGIONAL/LABORATORY COMMUNICATION SYSTEM**

**Resubmission Request**

**Laboratory Name:** BONNER  
**Lab Contact:** Chris Bonner  
**Region:** 6  
**Regional Contact:** Raymond Flores - EPA  
**ESAT Reviewer:** Linda Hoffman - ESAT

**In reference to data for the following fractions:**

CSF CN

**Summary of Questions/Issues:**

**A. CSF**

1. On Form DC-2-2, the "Airbill (No. of Shipments)" field was not completed. In the future, please enter the number of airbills received in the space provided.
2. On the Cover Page (p. 7), the three questions at the bottom of the page were not completed (ISM01.3, p. B-22, sec. 3.4.1.2.5). Please resubmit this page with the contract-required information.

**B. CN**

1. The negative concentration with an absolute value >MDL was not reported on the Form 3 for the preparation blank (ISM01.3, p. B-27, sec. 3.4.4.2.8). Please resubmit the Form 3 (p. 12) with the contract-required concentration reported.
2. The 5 ug/L calibration standard that was "X"d on the Form 13 on page 17, was not reported on the Form 16 on page 18. Please resubmit page 18 with the 5 ug/L concentration added.

**NOTE:** Any submitted laboratory resubmission should be clearly marked as "Additional Data" with a cover letter included describing what data is being delivered, which Case the data pertains, and who requested the data (ISM01.3, p. B-8, sec. 2.2.1). Custody seals are required for all such shipments.

Please respond to the above item **within 6 business days** (ISM01.3, p. B-8, sec. 2.2) by e-mail to [Flores.Raymond@epa.gov](mailto:Flores.Raymond@epa.gov) and by regular mail to:

Mr. Raymond Flores  
U.S. EPA Region 6 Laboratory  
10625 Fallstone Road  
Houston, TX 77099

If you have any questions, please contact Mr. Flores at 281-983-2139.

**Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy**

## USEPA CLP Inorganics COC (REGION COPY)

Date Shipped: 5/15/2012

Carrier Name: FedEx

Airbill No: 899197816298

## CHAIN OF CUSTODY RECORD

MSI

Case #: 42562

Cooler #: 1 of 2

No: 6-051512-133745-0002

Lab: Bonner Analytical Testing Company

Lab Contact: Patricia Aiken

Lab Phone: 601-264-2854

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
MF5WC4	Ground Water/ Gary Hazelwood	Grab	CN(21), CN(21), TM + Hg(21), TM + Hg(21)	6-456855 (NaOH pH>12), 6-456856 (NaOH pH>12), 6-456857 (HNO3 pH<2), 6-456858 (HNO3 pH<2) (4)	GW-01	05/15/2012 11:27	F5WC4	Field Sample
MF5WC5	Ground Water/ Gary Hazelwood	Grab	CN(21), TM + Hg(21)	6-456864 (NaOH pH>12), 6-456866 (HNO3 pH<2) (2)	GW-02	05/15/2012 11:45	F5WC5	Field Duplicate
MF5WC6	Ground Water/ Gary Hazelwood	Grab	TM + Hg(21), CN(21)	6-456867 (HNO3 pH<2), 6-456873 (NaOH pH>12) (2)	GW-03	05/15/2012 10:14	F5WC6	Field Sample

Sample(s) to be used for Lab QC: MF5WC4 - Special Instructions: Analytes for ICP-MS: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, cyanide, lead, manganese, mercury, nickel, selenium, silver, thallium, vanadium, zinc.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analytes for ICP-AES: aluminum, calcium, iron, magnesium, potassium, sodium.

Analysis Key: CN=CLP CN ISM01.3, TM + Hg=CLP TAL Metals + Hg ICP AES + MS

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	<i>Craig White</i>	5/15/12									

Page 10 of 10